

# WATER QUALITY MATTERS

BETTER WATER PRODUCES BETTER RESULTS

MAXIMIZE ROI WITH Maximum  
H<sub>2</sub>O



# One of the most important steps you can take to improve the health, appearance, and efficiency of a site, is to address water quality – first!

The Maximum H<sub>2</sub>O water conditioning process utilizes nanotechnology to alter water at the molecular level, revitalizing it, making it more productive.

The H<sub>2</sub>O Maximizer doesn't alter the chemical composition of the water molecule (H<sub>2</sub>O) but it does alter the physical properties and the way it behaves and performs. Water is transformed as it flows through the H<sub>2</sub>O Maximizer to create what is referred to as energized, structured water. This safe, organic process is performed naturally with magnetic technology and requires no chemicals, inputs, power, or maintenance.

Maximum H<sub>2</sub>O treated water has a lower surface tension. This "wetter" water more easily permeates and infiltrates the soil, and the cellular membrane of turf, plants, trees, and seeds.

Since this change is occurring at a molecular level it enables full and complete hydration, promoting growth, health, and improving tolerance to disease, insects, and drought; all using 20 - 50% less water and inputs.

The H<sub>2</sub>O Maximizer also mobilizes nutrients, controls and reverses mineral scale buildup, and improves soil health.

## Addresses issues:

- Limited water supply
- Poor water quality
- Unproductive / hydrophobic soil
- Hard water
- Mineral scale buildup

## Treats:

- Water Hardness
  - Calcium Magnesium (CaMg)
- SAR's (Sodium Absorption ratio)
- Calcium Carbonate (CaCO<sub>3</sub>)
- Bicarbonates (HCO<sub>3</sub>)
- Increases dissolved oxygen
- Hydrogen Sulfide
  - (rotten egg smell)
- Boron toxicity
- Iron Bacteria
- Acidity (pH)
- Reduces bacteria

## Maximum water productivity – Maximum H<sub>2</sub>O

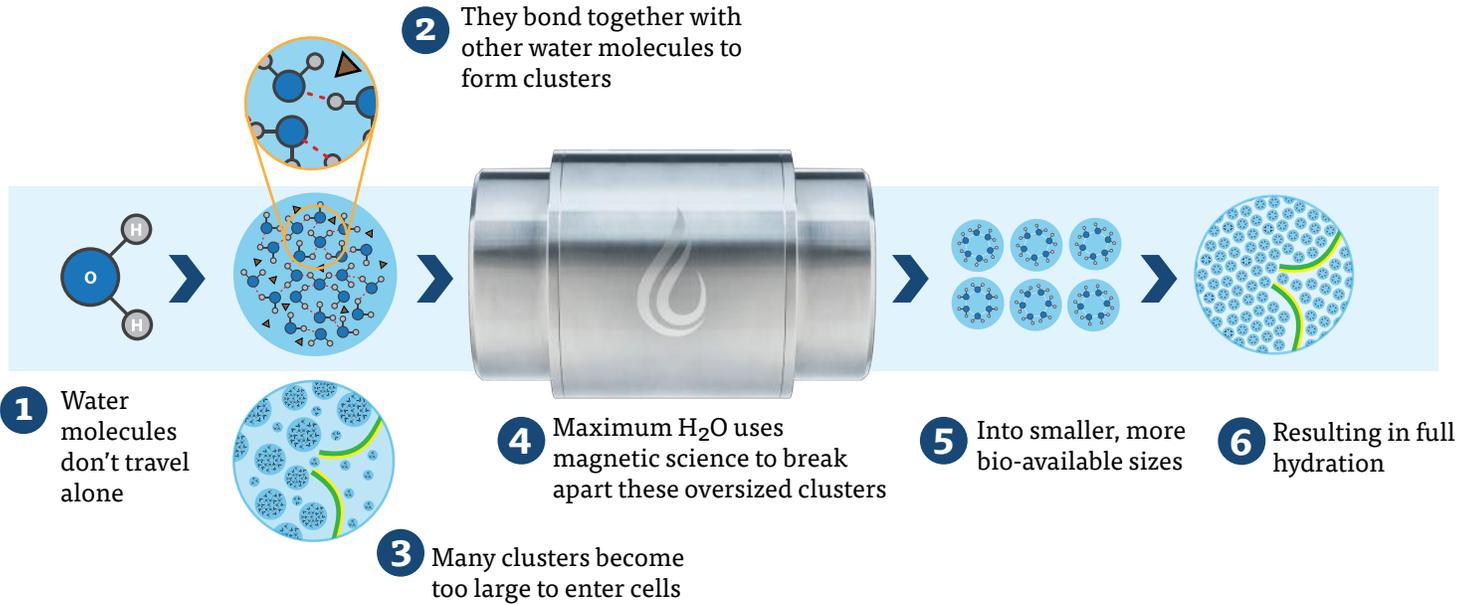


# Maximum H<sub>2</sub>O Water Transformation Process

Here's how the H<sub>2</sub>O Maximizer works to transform and dramatically improve the efficiency and productivity of your water.

Most water fails to deliver adequate nutrients, oxygen, and hydration because many normal water molecule clusters are too large to pass through the cellular membrane of seeds and plants. Although water is being applied, it's not bio-available at a cellular level,

therefore not effectively hydrating, or delivering adequate oxygen and nutrients. The H<sub>2</sub>O Maximizer restructures water molecules into smaller, more bio-available units, ensuring optimal delivery to the cells.



## The Result:

Superior hydration using 20 – 50% less water, delivery of more oxygen and nutrients to the cells, resulting in healthier turf, plants, trees, and soil; converting your water into an extremely effective delivery mechanism. All achieved organically, without chemicals, power, or additives.

The H<sub>2</sub>O Maximizer mimics a natural process achieved when rainwater forms and falls through up to 20,000 feet of magnetically charged atmosphere.

With Maximum H<sub>2</sub>O you can now achieve this on demand.

## Better permeation, percolation, and soil moisture content.

This “wetter” water increases the soil’s moisture holding capacity and moisture profile. Increasing permeation depths and better wicking of moisture in the soil. Fostering deeper and more complex root structures, healthier plants, and improving drought tolerance. Extremely effective at dissolving salts and leaching them from the soil by up to 300-400%, improving chemistry, mellowing soils, and enhancing biological activity.

Maximizing your return on operating costs



# Mineral Scale Control

The H<sub>2</sub>O Maximizer also breaks down minerals into smaller units and holds them in solution. This converts damaging hard minerals into productive nutritional, while eliminating scaling and corrosion in equipment and reducing mineral build-up in the soil.

Control mineral scale build-up and corrosion naturally without the use of chemicals, power, or acid wash.

Ideal for irrigation, power washing, boilers, cooling towers, drip irrigation, home use or anywhere mineral scale buildup is present.

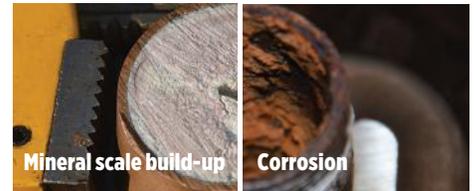
*Softens water naturally!*



Minerals in water at 2,000x magnification



Reverse and control



# Improve Nutrient Uptake and Soil Remediation

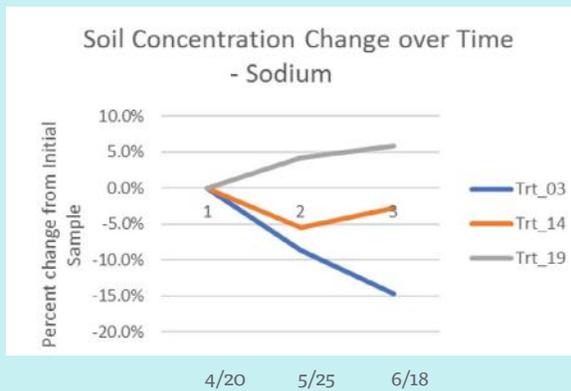
In 2016 an independent agronomy company performed a study of 3 competing products claiming the ability to restructure water and improve plant and soil health. The study was performed on a farm in Arizona and involved the collection and analysis of plant sap and soil paste samples to measure the mobilization of nutrients to the plant and unbinding mineral bound soils.

Plant sap analysis provides fast, precise diagnosis of nutritional imbalances to show desired nutrient levels at different growth stages for optimum performance

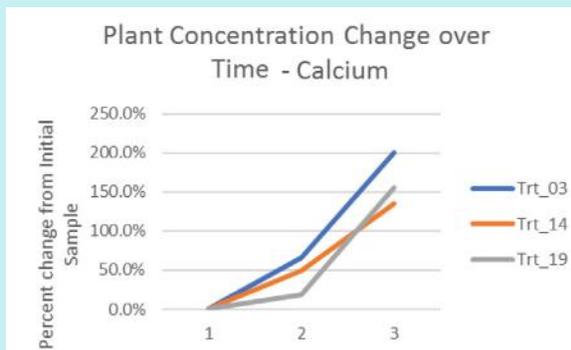
Maximum H<sub>2</sub>O was code named TRT\_03 in the study and was highlighted as the best of breed product in the study group.

Maximum H<sub>2</sub>O demonstrated superior ability to mobilize minerals in the water, from the soil, and to the plant. Fast and efficient mobilization of calcium and salts was exceptional with Maximum H<sub>2</sub>O.

## Is mineral uptake by plants different across treatments?



Trend of decreasing soil-bound Ca and Na with Trt\_03



Trt\_03 could promote uptake of Ca and Na



## “A golf course on the west coast used Maximum H<sub>2</sub>O...

... in 2013 to deal with their drought conditions (< 10 mm of rain all summer). They had trouble achieving 13% soil moisture content using their untreated irrigation water. At 11% they loose their turf. They used Maximum H<sub>2</sub>O 1” units for hand watering greens and they were able to achieve 21% soil moisture content in less time using less water.

## Maximum H<sub>2</sub>O reduces surface tension and friction loss

8 – 15% improvement in flow rates

Combined with a 20% reduction in water use equates to 25 – 32% overall pumping energy savings

Up to 30' additional coverage on rotors

Reduce or eliminate the need for surfactants in spray water

## Spray Applications and Pump Performance

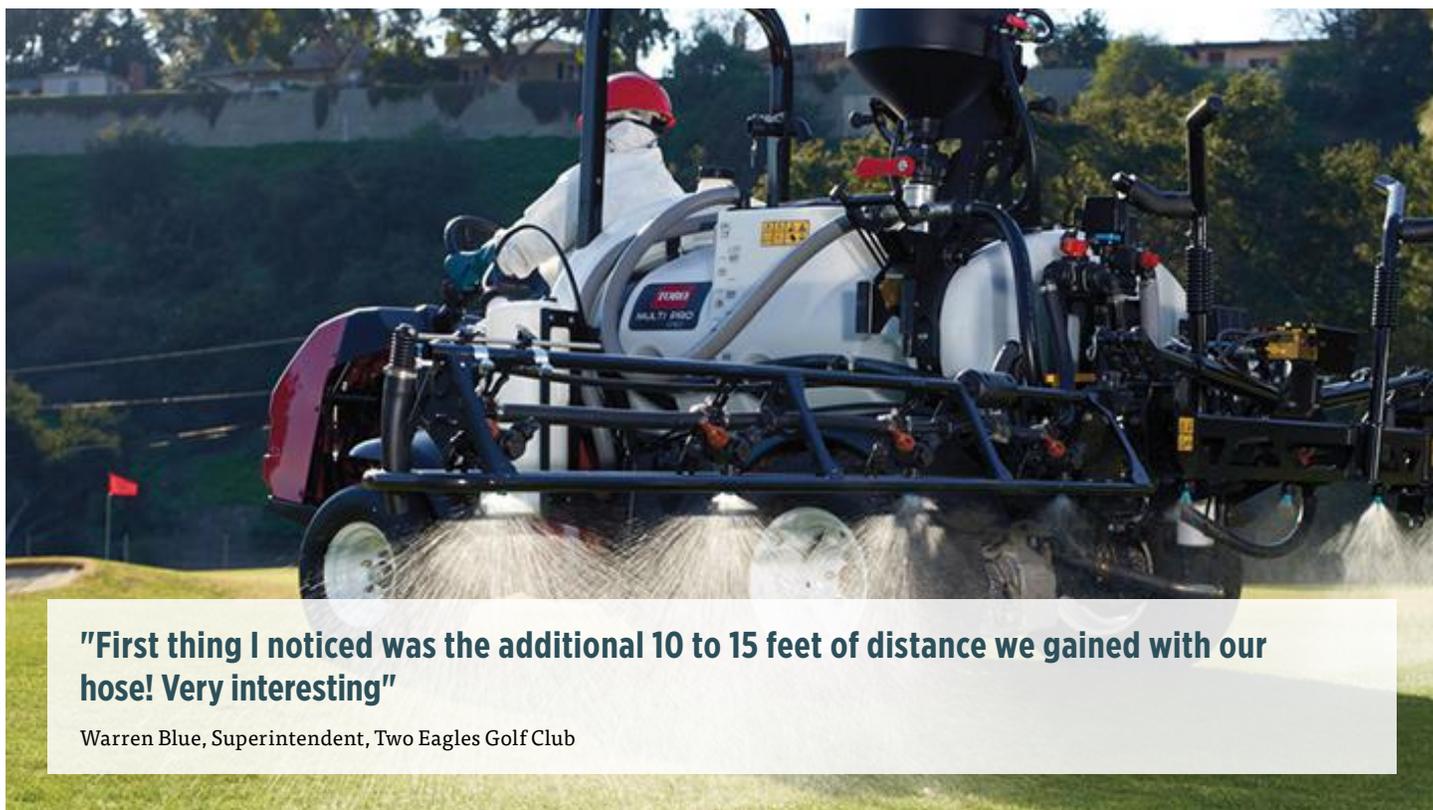
**“We used a 2 inch unit to fill the spray tank and we noticed that herbicides are much more effective. We saw weeds controlled that were not even on the label and those which were had much higher control than normal, it’s dramatic! The unit paid for itself more than once within the first season of use in the reduction of chemicals used”.**

Wayne Berg (Agronomist), Winkler, MB

The Maximum H<sub>2</sub>O, softened “wetter” water significantly improves the performance of chemicals used in spray applications. Pesticides, fungicides, herbicides, soaps, or any other chemicals used for spraying, cleaning, or fertigation applications just work more effectively. Water is more soluble, mixes more efficiently, and permeates the plant foliar matter more easily transforming your spray water into an extremely effective chemical delivery mechanism. This results in superior performance while reducing chemical inputs by up to 50%, often totally eliminating the need for surfactants altogether.

**We measured an extra 40' distance on our irrigation gun using Maximum H<sub>2</sub>O. That equates to a 23% reduction in pump RPM, fuel consumption, and pump wear and tear to achieve the same coverage.**

Kai Wiens  
Family Farm



**“First thing I noticed was the additional 10 to 15 feet of distance we gained with our hose! Very interesting”**

Warren Blue, Superintendent, Two Eagles Golf Club

# Markland Wood Golf Club

## “We implemented a 3” H<sub>2</sub>O Maximizer ...

on a greens loop of a test green at Markland Wood G.C. We tracked our SAR and moisture levels on the test and control greens for 3 years. Each season the SAR dropped and water infiltration increased on the test green as compared to the other greens. The numbers were impressive but more importantly the test green went from sub par to fantastic. These results convinced us to install a 6” H<sub>2</sub>O Maximizer in our pump station. We had a great season with Maximum H<sub>2</sub>O in place.”

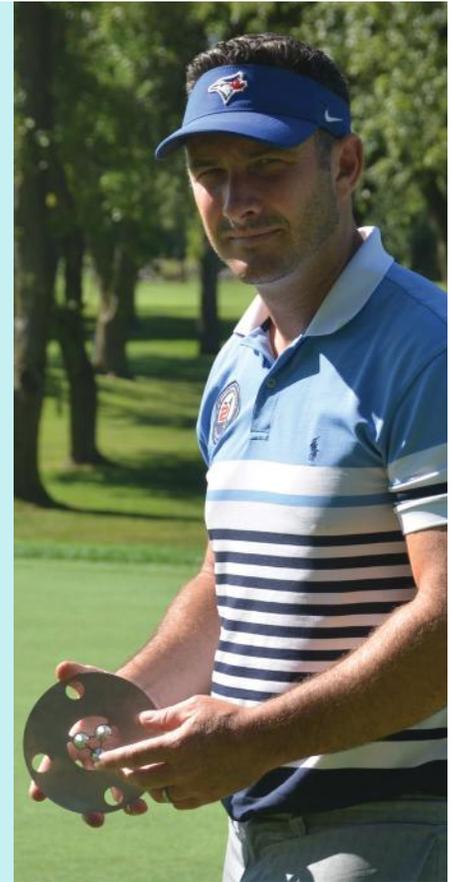
Respectfully, Owen Russell, Master Superintendent, Markland Wood Golf Club

Date: 2014-07-01 Key: Maximum H<sub>2</sub>O ● Control ●

Zone	Description	NodeID	Moisture	Temperature	Salinity	Time	Depth
Hole #6	Back Center Ridge	12068	42.17	84.72	2.12	7/1/2014 1:20 PM	0
Hole #6	Back Center Ridge	12068	39.88	75.14	1.08	7/1/2014 1:20 PM	1
Hole #4	Front Right	13411	41.73	87.82	0.42	7/1/2014 1:20 PM	0
Hole #4	Front Right	13411	32.8	77.57	0.56	7/1/2014 1:20 PM	1

Date: 2016-07-01 Key: Maximum H<sub>2</sub>O ● Control ●

Zone	Description	NodeID	Moisture	Temperature	Salinity	Time	Depth
Hole #6	Back Center Ridge	12068	24.98	73.3	0.2	7/1/2014 1:20 PM	0
Hole #6	Back Center Ridge	12068	32.8	66.6	0.15	7/1/2014 1:20 PM	1
Hole #4	Front Right	13411	24.61	75.46	0.14	7/1/2014 1:20 PM	0
Hole #4	Front Right	13411	24.85	68.15	0.1	7/1/2014 1:20 PM	1



# Turf/Soil Restoration 2015 - 2017 Riverton, Utah

Riverton Hospital had very poor turf, plants, and trees due to poor water quality and high buildup of minerals in the soil.

In 2015 an H<sub>2</sub>O Maximizer was installed on the discharge of the main pump station and after only 5 months of irrigation you can see the difference the energized, restructured water has made to the turf, trees, and soil.

See at the impact Maximum H<sub>2</sub>O treated water had on Riverton's soil profile:

Lab	pH	Phos-P	Pot-K	Sul-S	Zinc-Zn	Mag-Mn	I-Fe	Cop-Cu
Midwest 2013	8.2	25	557	56	2.2	5	52	3.4
Utah State 2015	7.8	15.2	409	60.5	1.71	6.56	15.1	3.15
Utah State 2017	7.5	9.4	426	27.7	2.21	16.9	32.7	4.23

Riverton Hospital recently received a Water Conservation award and a Property Beautification award from the city. **Riverton Hospital has also reduced their fertilizer application by 50% after installing the H<sub>2</sub>O Maximizer.**



# H<sub>2</sub>O Maximizer Configurations:

## Thread mount series

Sizes: 3/8", 3/4", 1", 1.25", 1.5" and 2"

Material: PVC, Anodized Aluminum, and 316 Stainless steel.

The H<sub>2</sub>O Maximizer is easy to install on a hose, drip system, or in the supply line. Available in multiple configurations to best suit your needs.



## Rotor Point Of Discharge (POD)

Available in 1" ACME M X F

Material: PVC

Designed to connect to the bottom of rotors or swing joints to treat greens and localized hydrophobic soils. This will boost your water conditioning program where you need it most.

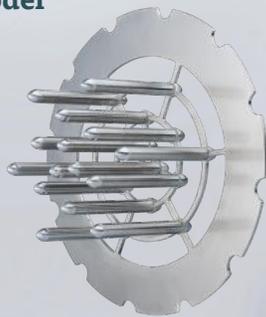


## Flange mount - Base Model

Sizes: Range from 2" to 48"

Material: 316 Stainless Steel

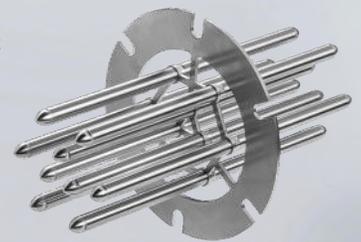
Easily installs in existing plumbing flanges and is sized according to flange size and make. Available in multiple configurations to best suit your needs.



## Flange mount - HMC Model

(HMC - High Mineral Content)

For locations with extremely high mineral / salinity content in the water. Designed to have the maximum impact of "shocking" mineral laden water and breaking salts and other minerals down into a form which is unable to harm plants or buildup on equipment or in the soil.



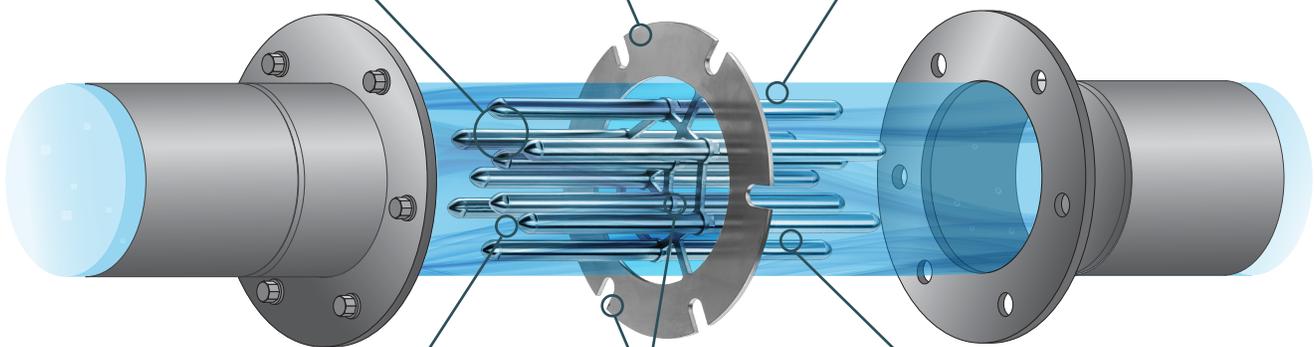
# Superior, Industry Leading Design

### 100% Maintenance free

Proximity is Extremely important: Close proximity of the various magnetic fields ensures optimal treatment at any flow rate

Stainless Steel Flange - available in multiple configurations to suit your specific needs

Minimal footprint - Results in 8 - 15% net improvement to pre-Maximum H<sub>2</sub>O flow rates



Orientation of multi-polar magnetic fields create maximum effect

316 Stainless Steel more than twice the hardness and durability of aluminum

Magnetrons in direct contact with water

# Maximum H<sub>2</sub>O Seed Enhancement

Maximum H<sub>2</sub>O transforms water at a molecular level, therefore passing dry seed through an H<sub>2</sub>O Maximizer before planting effects the moisture in the seed making it more bio-available to the cells, kick-starting the germination process and expediting the protein development within the seed.

We help you do more with fewer resources while solving your specific challenges. Our advanced, chemical and maintenance free technology will deliver savings year after year through improved production and water efficiencies.

Our products lead the industry in design, quality, and warranty. When you select us you gain a long term solution and partner.

Your satisfaction is guaranteed!

## Seed Enhancement benefits:

- Earlier germination and higher percentage of seed germinate
- Results in healthier, more dominant plants
- Larger, more complex root structures
- Fuller turf and plants
- Better quality
- Improves weak seeds
- Increased starch and protein development
- Higher drought and disease resistance

